CSE 344 Section 3 Worksheet

SQL Aggregates Practice

```
CREATE TABLE Movies (id int PRIMARY KEY, name varchar(30),
budget int, gross int, rating int, year int);
CREATE TABLE Actors (id int PRIMARY KEY, name varchar(30), age int);
CREATE TABLE ActsIn (mid int REFERENCES Movies(id),
aid int REFERENCES Actors(id));
```

What is the minimum age of an actor who has appeared in a movie where the gross of the movie has been over \$1,000,000,000?

What is the name and budget of each movie released in 2017 whose oldest actor is less than 30?

More Challenging

```
CREATE TABLE Class (
   dept VARCHAR(50),
   number INT,
   title VARCHAR(50),
   PRIMARY KEY (dept, number));
CREATE TABLE Instructor (
   username VARCHAR(50) PRIMARY KEY,
   fname VARCHAR(50),
lname VARCHAR(50),
   started on CHAR(10));
CREATE TABLE Teaches (
   username VARCHAR(50), -- alternately, can use the REFERENCES syntax here
   dept VARCHAR (50),
   number INT,
   PRIMARY KEY (username, dept, number),
   FOREIGN KEY (username) REFERENCES Instructor,
   FOREIGN KEY (dept, number) REFERENCES Class);
```

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| 1. For each instructor, return their username and the number of classes they teach. |
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| 2. Return the first and last name of the newest instructor(s) (who started on the latest date). Assume Instructor.started_on uses yyyy-mm-dd format. If there are multiple instructors, list all of them. |
| 3. How many classes are currently being taught by at least one instructor? |
| 4. Return the first name and last name of the instructors who teach the most number of classes. If there are multiple instructors, list all of them. |
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